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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/785,003	02/25/2004	Toshihiro Hikichi	107156-00230	9750	
4372 7	590 10/12/2005		EXAMINER		
ARENT FOX PLLC			NI, SUHAN		
1050 CONNECTICUT AVENUE, N.W. SUITE 400			ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20036			2646		
			DATE MAILED: 10/12/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)				
Office Action Summary		10/785,	,003	HIKICHI, TOSHIHIRO				
		Examin	er	Art Unit				
		Suhan N	Ni	2646				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHO WHIC - Exter after - If NO - Failur Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M asions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply is specified above, the maximum sta- re to reply within the set or extended period for reply reply received by the Office later than three months a red patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF of 37 CFR 1.136(a). In no nunication. atutory period will apply and will, by statute, cause the a	THIS COMMUNICATION event, however, may a reply be tin will expire SIX (6) MONTHS from pplication to become ABANDONE	N. nely filed the mailing date of this cor D (35 U.S.C. § 133).				
Status								
2a) <u></u>	Responsive to communication(s) file This action is FINAL . Since this application is in condition closed in accordance with the practic	2b)⊠ This action is for allowance exce	non-final. pt for formal matters, pro		merits is			
Disposition of Claims								
5)☐ 6)⊠ 7)☐ 8)☐ Applicati 9)☐ 10)☐	Claim(s) 1-5 is/are pending in the ap 4a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) 1-5 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict on Papers The specification is objected to by the the drawing(s) filed on is/are: Applicant may not request that any objected to eath or declaration is objected to the country of the oath or declaration is objected to the country of the oath or declaration is objected to the country of th	re withdrawn from of the cition and/or election and/or election are examiner. a) accepted or accepted or the correction is required.	requirement. b) objected to by the l be held in abeyance. See uired if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFI	• •			
Priority u	nder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO-1449 or No(s)/Mail Date <u>2/25/04</u> .		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	.152)			

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DETAILED ACTION

1. The Art Unit location of your application in the PTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Group Art Unit 2646.

2. This communication is responsive to the application filed 02/25/2004.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) The invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

3. Claims 1 and 3-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Liu (U. S. Pat. - 6,490,363).

Regarding claim 1, Liu discloses a speaker apparatus, comprising: a dome diaphragm (26) equipped with a voice coil and having a concave cross section protruding towards the voice coil; an edge (11) provided on the outer periphery of the dome diaphragm, having a concave cross section protruding towards the voice coil and supporting the dome diaphragm on a frame; and a magnetic circuit (22) forming a magnetic gap containing the voice coil as claimed.

Regarding claims 3-4, Liu further discloses the speaker apparatus, wherein the dome diaphragm and the edge are formed by mutually independent members and different materials (Fig. 3).

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Regarding claim 5, Liu further discloses the speaker apparatus, wherein said magnetic circuit is an inner magnetic type (Fig. 4) as claimed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Liu (U. S. Pat. 6,490,363).

Regarding claim 2, Liu does not clearly teach in details of the dimension of the edge as claimed. Since Liu does not specially restrict the dimension of the edge, it therefore would have been obvious to one skilled in the art at the time the invention was made to be motivated to suitably alter the dimension of the edge, such as such as the outer diameter of the edge is 1.5 times the inner diameter of the edge as an alternate choice, in order to customize the speaker for obtaining certain acoustic characteristics for different application.

Conclusion

- 5. The prior art of Foreign Patent Documents have not made of record, since there is no English translation provided by the applicant (please see on **PAIR**). Please provide a proper English Translation in next communication for consideration.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Suhan Ni** whose telephone number is (571)-272-7505, and the number for fax machine is (571)-273-7505. The examiner can normally be reached on Tuesday

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7.

and Thursday from 10:00 am to 8:00 pm, and may be reached on Monday, Wednesday and Friday from 10:00 am to 8:00 pm. If it is necessary, the examiner's supervisor, **Sinh N. Tran**, can be reached at (571)-272-7564.

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Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

Information regarding the status of an application may be obtained from the Patent

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov/. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

8. Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the group receptionist whose telephone number is (571)-272-2600, or

please see http://www.uspto.gov/web/info/2600.

October 1, 2005

PRIMARY EXAMINER